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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date: 02.07.2013

TEST REPORT

CLIENT	:	**Asst.Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.G.Manjunath,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14

Date : 02.07.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Date of Testing : 02.07.2013

Material : Sand

Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	146	7.30	7.30	92.7	90-100
2.36	193	9.65	16.95	83.1	75-100
1.18	186	9.30	26.25	73.8	55 90
600 Micron	471	23.55	49.80	50.2	35-59
300 Micron	625	31.25	81.05	19.0	8-30
150 Micron	355	17.75	98.80	1.2	0-10

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date : 02.07.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Date of Testing : 02.07.2013

Material : Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	146	7.30	7.30	92.7	90-100
2.36	193	9.65	16.95	83.1	75-100
1.18	186	9.30	26.25	73.8	55-90
600 Micron	471	23.55	49.80	50.2	35-59
300 Micron	625	31.25	81.05	19.0	8-30
150 Micron	355	17.75	98.80	1.2	0-10

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date : 02.07.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Date of Testing : 02.07.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	174	1.16	1.16	98.84	95-100
20	8736	58.24	59.40	40.60	30-70
10	3431	22.87	82.27	17.73	10-35
4.75	1989	13.26	95.53	4.47	0-5

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date : 02.07.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Date of Testing : 02.07.2013

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	163	3.3	3.3	96.7	95-100
10	2798	56.0	59.2	40.8	25-55
4.75	1839	36.8	96.0	4.0	0-10

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date: 02.07.2013

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Sample Identification : 8mm,10mm, 12mm,16mm TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 02.07.2013

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	536	544	13.5
2	Fe 500	10	0.62	542	548	14
3	Fe 500	12	0.89	548	556	15.5
4	Fe 500	16	1.60	560	574	17

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date: 13.08.2013

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Contractor : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2013	13.08.2013	7.990	376.1	16.72
2	16.07.2013	13.08.2013	8.083	389.2	17.30
3	16.07.2013	13.08.2013	7.890	393.7	17.50

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date: 27.08.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst.Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Contractor : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Sample ID : Reinforced Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	27.08.2013	8.031	495.8	22.04
2	30.07.2013	27.08.2013	8.090	493.1	21.92
3	30.07.2013	27.08.2013	7.940	499.5	22.20

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TEST REPORT ON CONCRETE CUBES

Client : **Asst.Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Contractor : **Sri.G.Manjunath,** Contractor, Bangalore.

Name of the work : Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.

Sample ID : Reinforced Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2013	27.08.2013	8.060	503.6	22.38
2	30.07.2013	27.08.2013	8.099	499.5	22.20
3	30.07.2013	27.08.2013	8.110	494.1	21.96

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14

Date: 07.07.2013

REPORT

Client	:	**Asst.Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri.G.Manjunath,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Testing	:	07.07.2013

TABLE - 2.1: SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-9
63mm	100.00	100
53mm	98.32	95-100
45mm	70.26	65-90
22.4mm	5.98	0-10
11.2mm	2.96	0-5

Sl. No	Test Conducted	Results	Requirements as per IS 383-1970 (Reaffirmed on 2002 & MORTH Specifications)
1.	Aggregate Impact Value	26.12%	30% Maximum.
2.	Combined Flakiness and Elongination	25.69%	35% Maximum.

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Date: 07.07.2013

Job No.: CECTC/BBMP/GM/W.no.06/2013-14

REPORT

Client	:	**Asst.Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri.G.Manjunath,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Testing	:	07.07.2013

TABLE - 2.1: SEIVE ANALYSIS:

IS Sieve design ation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-9
63mm	100.00	100
53mm	96.12	95-100
45mm	73.61	65-90
22.4mm	7.86	0-10
11.2mm	3.14	0-5

Sl. No	Test Conducted	Results	Requirements as per IS 383-1970 (Reaffirmed on 2002 & MORTH Specifications)
1.	Aggregate Impact Value	26.48%	30% Maximum.
2.	Combined Flakiness and Elongination	31.92%	35% Maximum.

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Job No.: CECTC/BBMP/GM/W.no.06/2013-14 Date: 09.07.2013

REPORT

Client	:	**Asst.Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri.G.Manjunath,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads and drains at (Near Narayanapura Road) Cauvery Layout in ward No.06, BBMP, Bangalore.
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Testing	:	09.07.2013

TABLE – 400.9: SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
75mm	100.00	100.00
63mm	96.93	95-100
53mm	75.58	65-90
45mm	6.63	0-10
22.4mm	4.32	0-5

Sl. No	Test Conducted	Results	Requirements as per IS 383-1970 (Reaffirmed on 2002 & MORTH Specifications)
1.	Aggregate Impact Value	26.89%	30% Maximum.
2.	Combined Flakiness and Elongination	24.12%	35% Maximum.

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